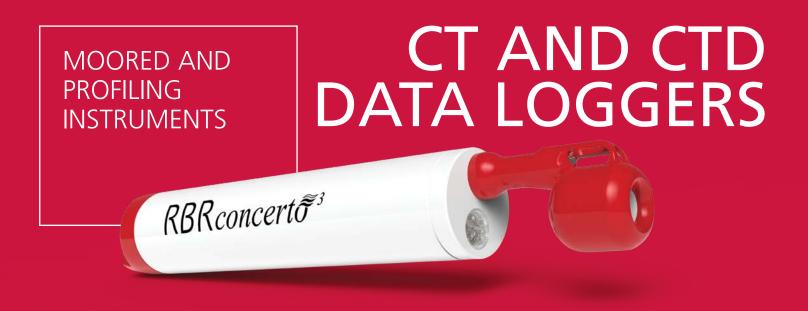


RBRduo³ C.T / RBRconcerto³ C.T.D



The RBRduo³ C.T and the RBRconcerto³ C.T.D are unique data loggers dedicated to the determination of salinity. Salinity is calculated by measuring the conductivity and temperature of the water. Equipped with a depth channel, the RBRconcerto³ C.T.D can also derive density anomaly and speed of sound. The RBRduo³ C.T and the RBRconcerto³ C.T.D are available in configurations that support moored or profiling applications, and come equipped with twist activation.

FEATURES













RBR CT and CTD data loggers are available in the following configurations:

RBRduo³ C.T moored instrument; measures conductivity and temperature

▶ RBRconcerto³ C.T.D moored instrument; measures conductivity, temperature and depth

▶ RBRconcerto³ C.T.D.Tu|fast8 turbidity, 8Hz profiling instrument; fast sensor response

▶ RBRconcerto³ C.T.D|fast16 16Hz profiling instrument; fast sensor response

▶ RBRconcerto³ C.T.D|fast32 32Hz profiling instrument; fast sensor response

RBR CT and CTD loggers make it simple to configure the optimum sampling regime for your measurements. The large data storage capacity and fast download ability facilitate long deployments with higher sampling rates. The loggers are available in a standard body or extended body with additional power for extended deployments. Conductivity measurements are performed using a rugged inductive cell that can be frozen into ice. Dataset export to Matlab, Excel, OceanDataView®, or text files makes post processing with your own algorithms effortless.





CT AND CTD DATA LOGGERS

MOORED AND PROFILING INSTRUMENTS

Specifications

Physical

Storage: 240M readings Power: 8 AA cells

Communication: USB-C or RS-232/485
Clock drift: ±60 seconds/year
750m (plastic)
10,000m (titanium)
Housing: Plastic or titanium

Housing: Plastic or titanium
Size: ~355 or 490mm x Ø63.25mm
Weight: ~1300g in air, 200g in water

Sampling period: 1s to 24h (moored)
Fast option: |fast8 — 1 – 8Hz (profiling)
| fast16 — 1 – 8, 16Hz

(profiling)

|fast32 — 1 – 8, 16, 32Hz

(profiling)

Conductivity (up to 6000m)

Range: 0-85mS/cm
Initial accuracy: ±0.003 mS/cm
Resolution: 0.001 mS/cm
Typical stability: 0.010 mS/cm per year

Temperature

Range: -5° C to 35°C Initial accuracy: $\pm 0.002^{\circ}$ Resolution: 0.00005° C

Time constant: ~1s (standard), ~0.1s (option)

Typical stability: 0.002°C per year

Depth

Range: 20 / 50 / 100 / 200 / 500 / 750

1000 / 2000 / 4000 / 6000 / 10,000m (dbar)

Initial accuracy: ±0.05% FS (full scale)

Resolution: 0.001% FS Time constant: 0.001s

Typical stability: 0.05% FS per year

Options

- ▶ Wi-Fi communication
- ▶ |fast8, |fast16 or |fast32Hz sampling for profiling
- ► External data and power connector with USB, RS-232, or RS-485



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